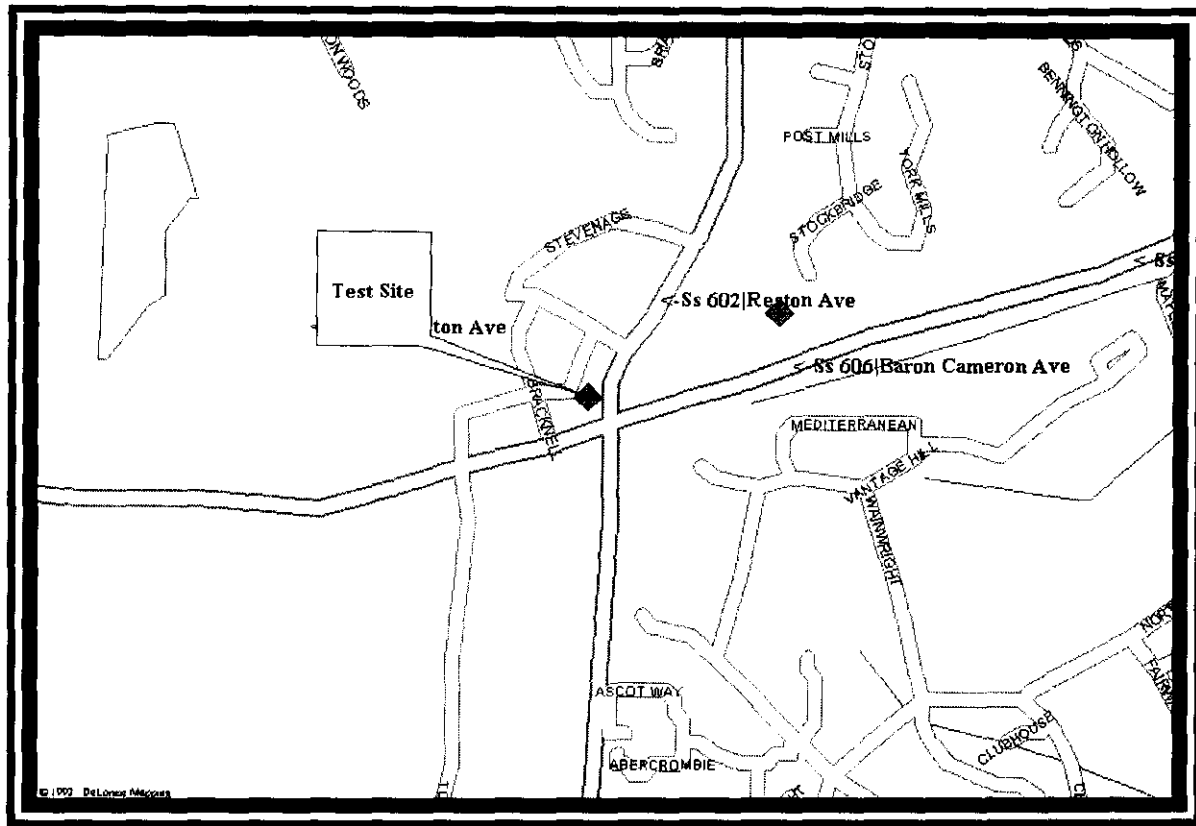


SECTION 3.2

Reston, VA

3.2 Reston, Virginia - Hechinger Parking Lot at the intersection of Baron Cameron Avenue and Reston Parkway

- o Figure 3.2-1 presents a site data sheet including all pertinent site information and a site map.
- o Figure 3.2-2 is the photograph depicting the test site.
- o Figure 3.2-3 is the RF spectrum photographs depicting the interference environment at the test site.



Site Location: Hechinger Parking Lot off of Reston Parkway and Baron Cameron, Reston, Virginia

Type Environment: Suburban, Busy Road, Store Parking Lot

GPS Coordinates (NAD 83): 38 58 04.9 N
77 21 17.6 W

Date/Time of Measurement: October 9, 2000/ 15:15 PM to 16:00 PM

Figure 3.2-1 Measurement Site Data Sheet



Hechinger Parking Lot off of Reston Parkway and Baron Cameron, Reston, Virginia.

Figure 3.2-2 Measurement Site Photograph

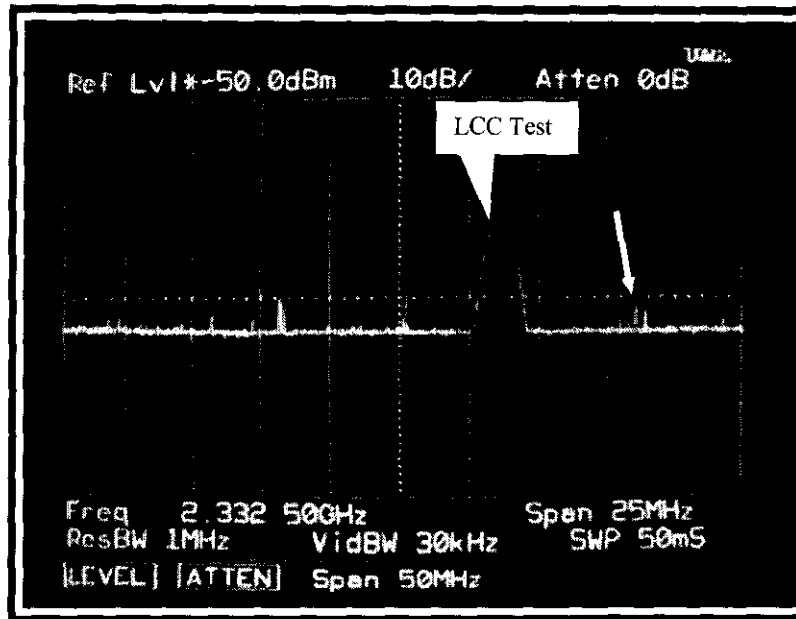
Hechinger Parking lot, Reston, Virginia

Azimuth 125°/Elevation 10°

XM Satellite Radio

Reference
Level
dBm_I

-70



Date: October 9, 2000

Time of Day: 15:48

Ant. Polarization: V

Ant. Centerline: 5 Ft.

Highest Recorded Signal:

MHz Level (dBm_I)

2341 -120.0*

* Maximum vehicle ignition
noise measured as indicated
by arrow.

(A)

Figure 3.2-3 RF Spectrum Analysis

SECTION 3.3

Vienna, VA

3.3 Vienna, Virginia - Cul-De-Sac of Surveyor Court off of Pleasant Road

- o Figure 3.3-1 presents a site data sheet including all pertinent site information and a site map.
- o Figure 3.3-2 is the photographs depicting the test site.
- o Figures 3.3-3 through 3.4-5 are the RF spectrum photographs depicting the interference environment at the test site.



Cul-De-Sac of Surveyor Court off of Pleasant Road in Vienna, Virginia

Figure 3.3-2 Test Measurement Site Photographs

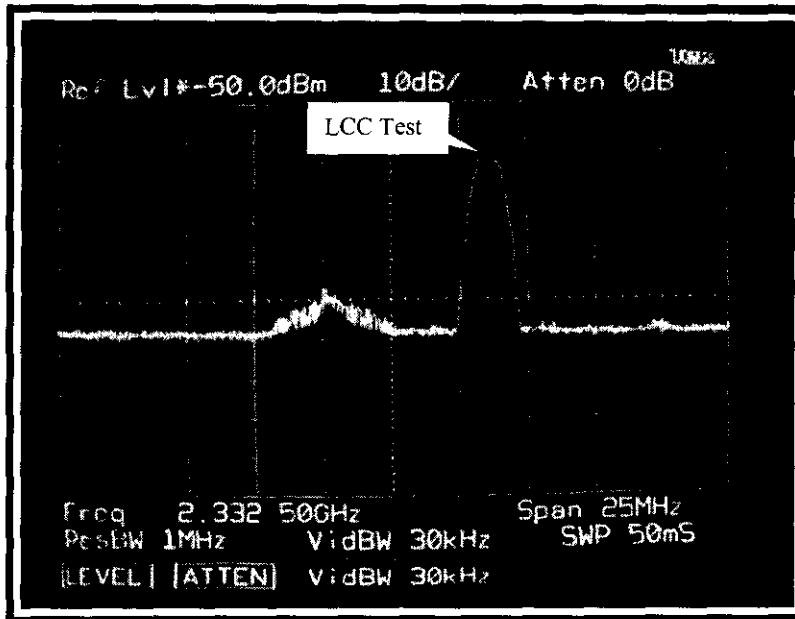
Surveyor Court - Vienna, Virginia

Azimuth 0-360°

Reference
Level
dBm_i

XM Satellite Radio

-70



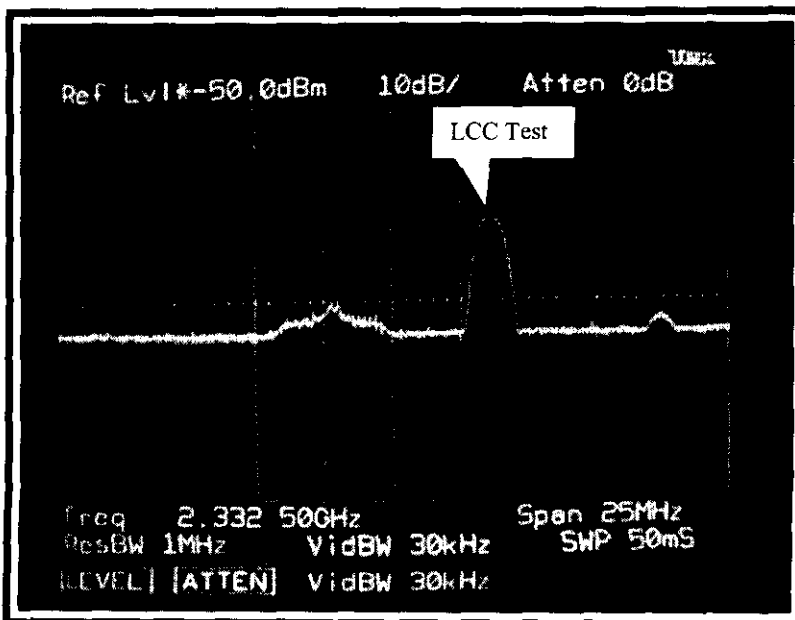
Date: October 10, 2000
Time of Day: 12:02
Ant. Polarization: V
Ant. Centerline: 5 Ft.

Full Antenna Sweep

(A)

Reference
Level
dBm_i

-70



Date: October 10, 2000
Time of Day: 12:07
Ant. Polarization: H
Ant. Centerline: 5 Ft.

Full Antenna Sweep

(B)

Figure 3.3-3 RF Spectrum Analysis

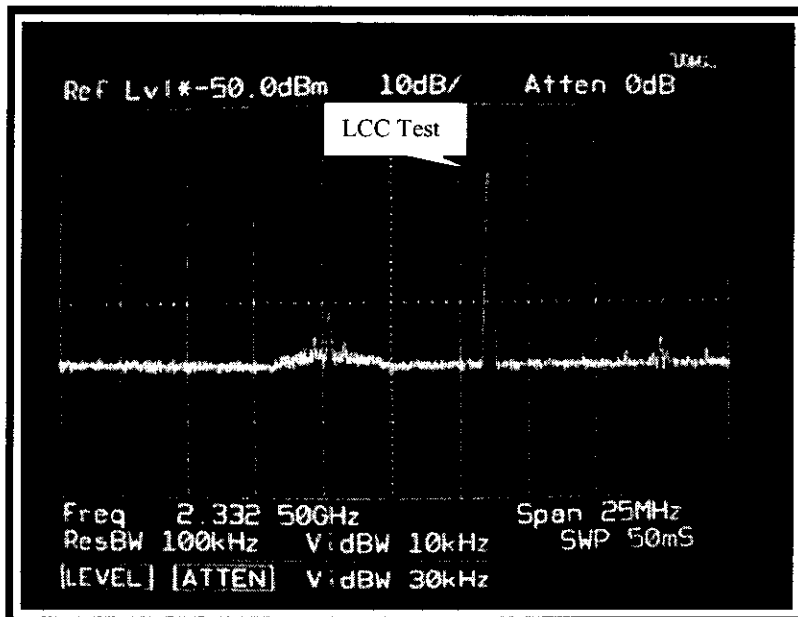
Surveyor Court - Vienna, Virginia

Reference
Level
dBm_I

XM Satellite Radio

Azimuth 0-360°

-70



Date: October 10, 2000
Time of Day: 12:10
Ant. Polarization: V
Ant. Centerline: 5 Ft.

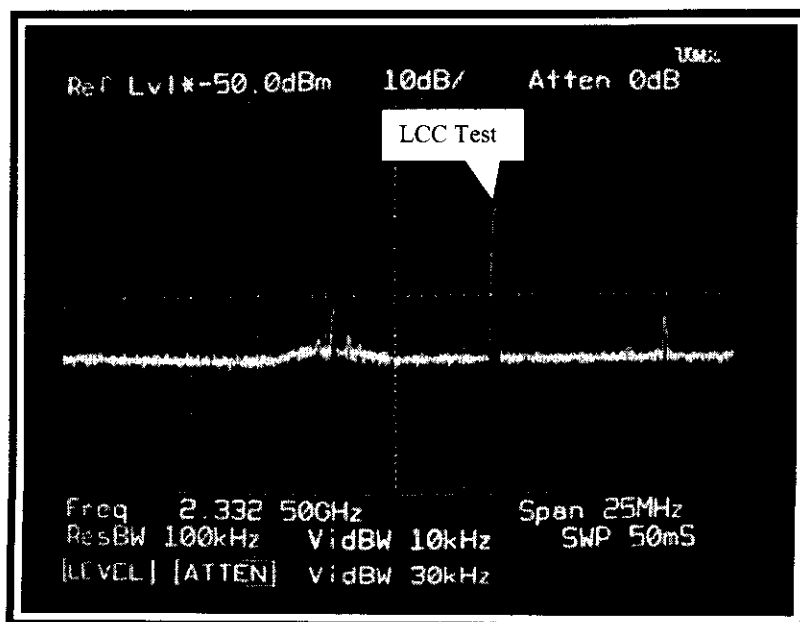
Full Antenna Sweep

100 kHz Resolution Bandwidth

(A)

Reference
Level
dBm_I

-70



Date: October 10, 2000
Time of Day: 12:09
Ant. Polarization: H
Ant. Centerline: 5 Ft.

Full Antenna Sweep

100 kHz Resolution Bandwidth

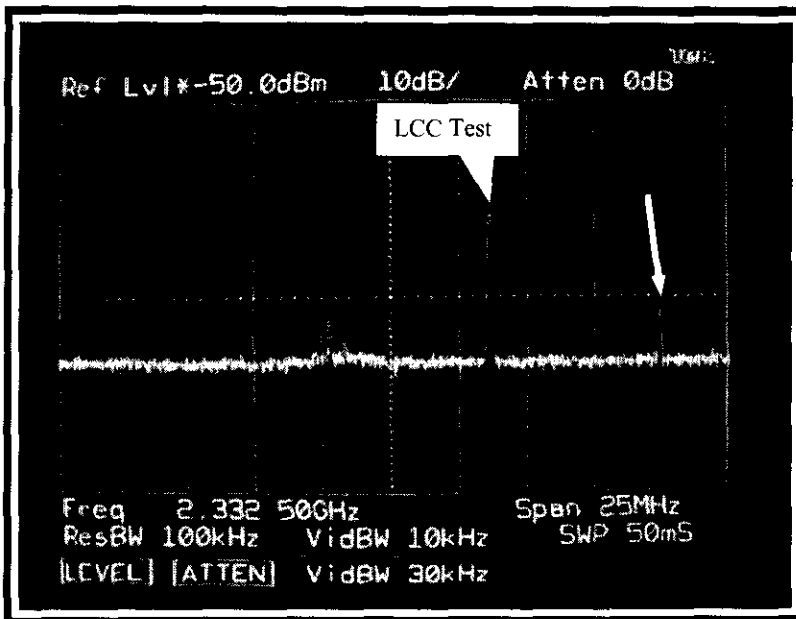
(B)

Figure 3.3-4 RF Spectrum Analysis

Surveyor Court - Vienna, Virginia
 Azimuth 169°/Elevation -5°
 XM Satellite Radio

Reference
 Level
 dBm_i

-70



Date: October 10, 2000
 Time of Day: 12:16
 Ant. Polarization: V
 Ant. Centerline: 5 Ft.

Test antenna is peaked on 2342 MHz interference signal, both in azimuth and elevation.

Highest Recorded Signal:
 MHz Level (dBm_i)
 2342 -124.6

(A)



Photograph shows the direction of interference at 2342 MHz.

Sign posted in front yard that the home is protected by "BRINKS".

(B)

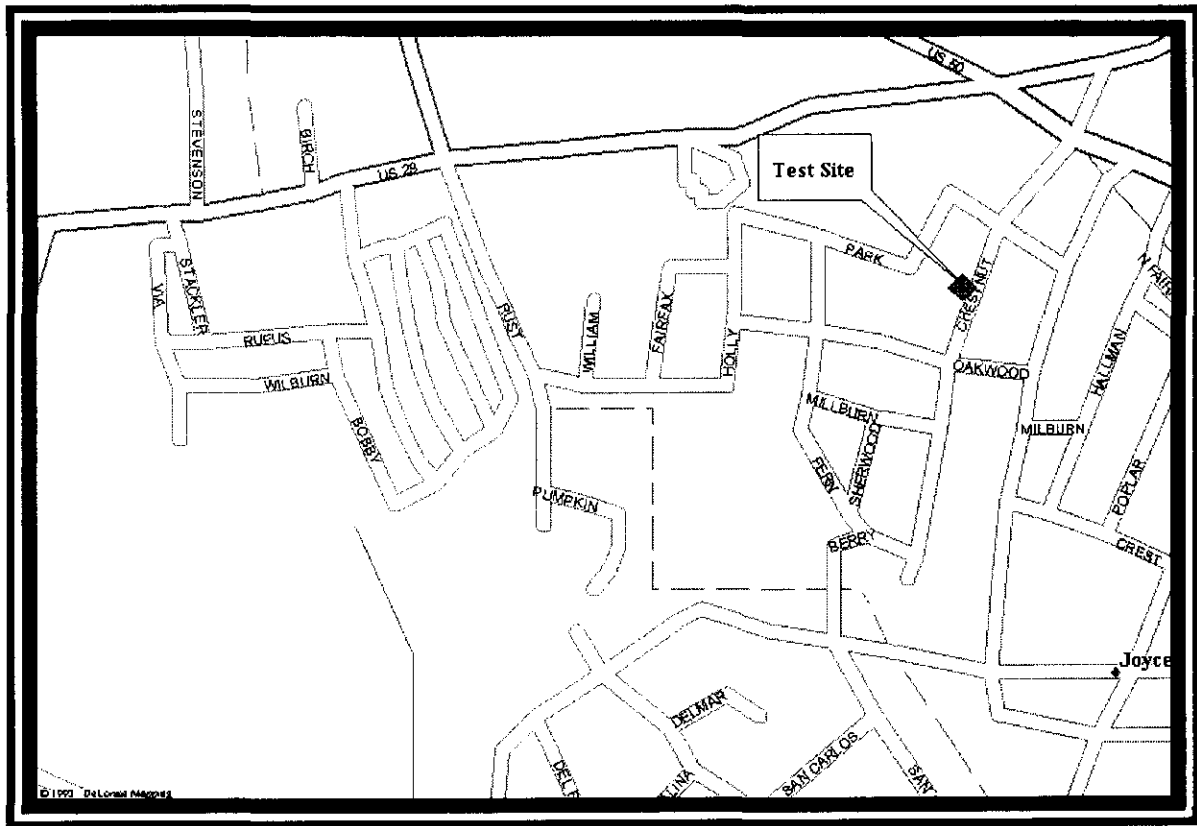
Figure 3.3-5 RF Spectrum Analysis

SECTION 3.4

Fairfax, VA

3.4 Fairfax, Virginia - Intersection of Chestnut Street and Park Road

- o Figure 3.4-1 presents a site data sheet including all pertinent site information and a site map.
- o Figure 3.4-2 is the photographs depicting the test site.
- o Figures 3.4-3 through 3.4-4 are the RF spectrum photographs depicting the interference environment at the test site.



Site Location: Intersection of Chestnut St. and Park Road in Fairfax, Virginia

Type Environment: Residential community, no major traffic,

GPS Coordinates (NAD 83): 38 51 01.3 N
77 19 26.3 W

Date/Time of Measurement: October 10, 2000/ 4:30 PM to 5:00 PM

Figure 3.4-1 Measurement Site Date Sheet



Intersection of Chestnut Street and Park Road in Fairfax, Virginia

Figure 3.4-2 Test Measurement Site Photographs

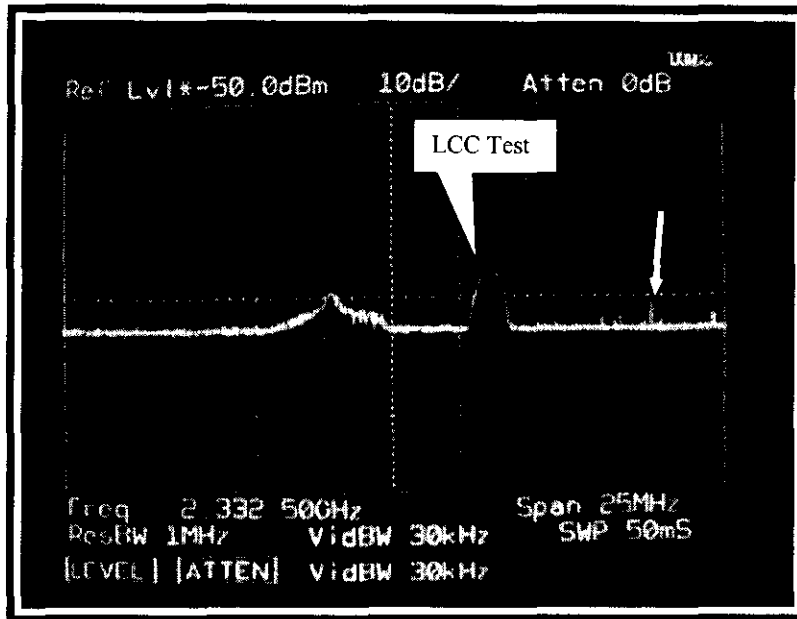
Chestnut and Park - Vienna, Virginia

Azimuth 0-360°

Reference
Level
dBm_i

XM Satellite Radio

-70



Date: October 10, 2000

Time of Day: 16:37

Ant. Polarization: V

Ant. Centerline: 5 Ft.

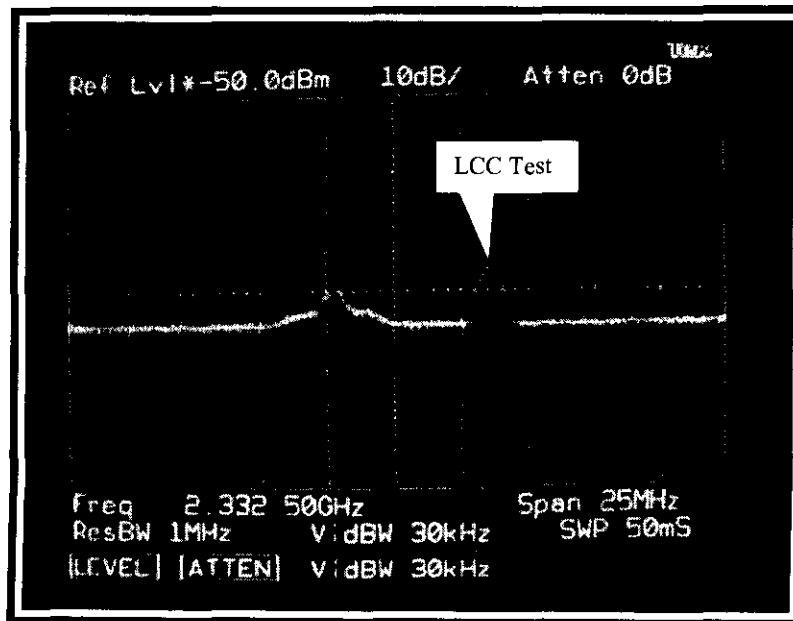
Full Antenna Sweep

Maximum ignition noise
interference signal measured
was -122 dBm at 2342.25 MHz
as indicated by arrow.

(A)

Reference
Level
dBm_i

-70



Date: October 10, 2000

Time of Day: 16:39

Ant. Polarization: H

Ant. Centerline: 5 Ft.

Full Antenna Sweep

(B)

Figure 3.4-3 RF Spectrum Analysis

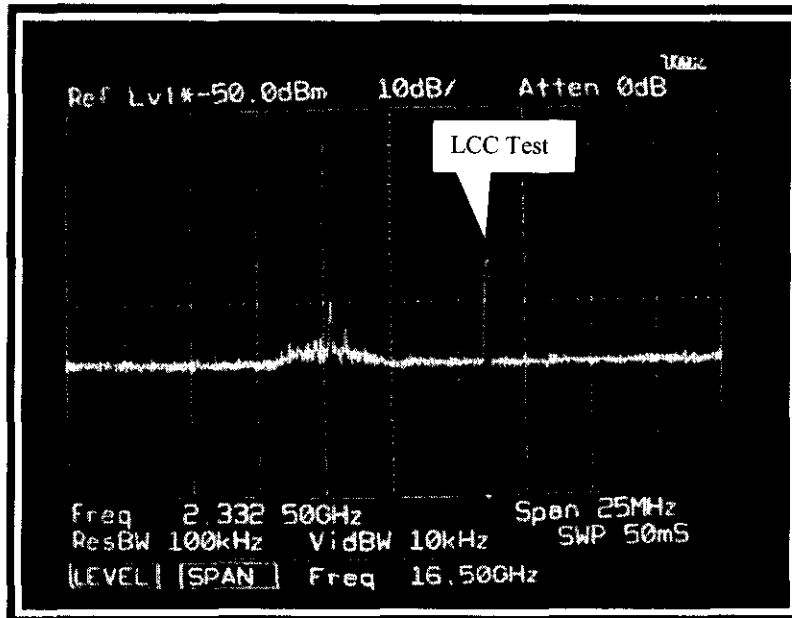
Chestnut and Park - Vienna, Virginia

Azimuth 0-360°

Reference
Level
dBm_i

XM Satellite Radio

-70



Date: October 10, 2000

Time of Day: 16:43

Ant. Polarization: V

Ant. Centerline: 5 Ft.

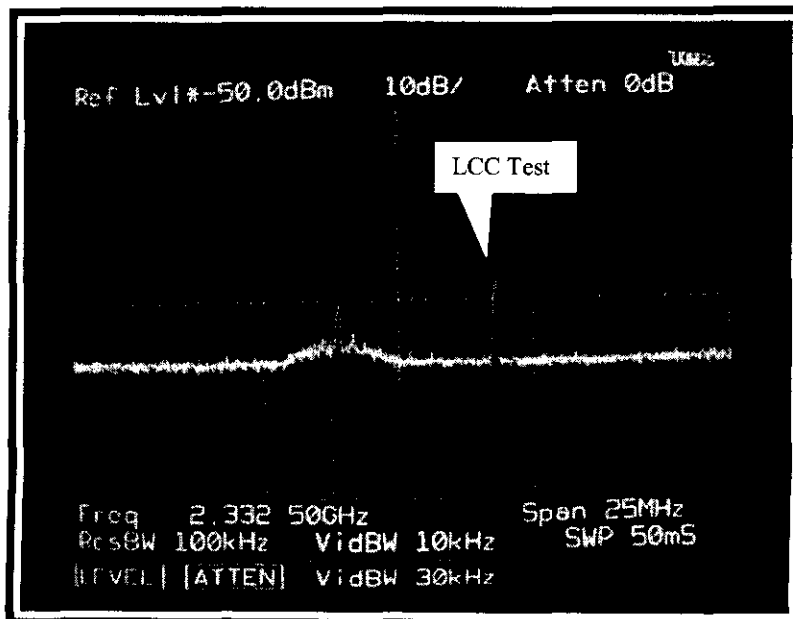
Full Antenna Sweep

100 kHz Resolution Bandwidth

(A)

Reference
Level
dBm_i

-70



Date: October 10, 2000

Time of Day: 16:40

Ant. Polarization: H

Ant. Centerline: 5 Ft.

Full Antenna Sweep

100 kHz Resolution Bandwidth

(B)

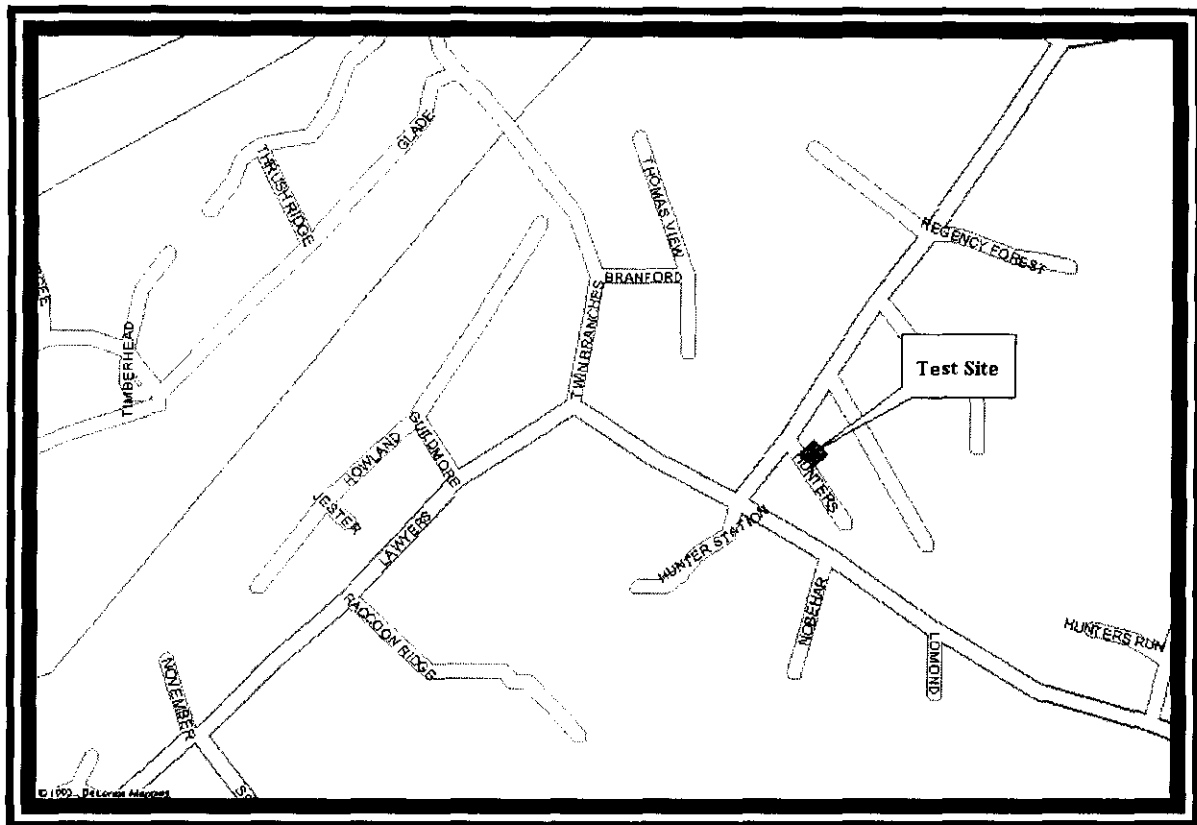
Figure 3.4-4 RF Spectrum Analysis

SECTION 3.5

Reston, VA

3.5 Reston, Virginia – 119 Feet SE of Intersection of Hunter Station and Hunters Place

- o Figure 3.5-1 presents a site data sheet including all pertinent site information and a site map.
- o Figure 3.5-2 is the photograph depicting the test site.
- o Figure 3.5-3 is the RF spectrum photographs depicting the interference environment at the test site.



Site Location: 119 feet SE of intersection of Hunter Station and Hunters Place in Reston, Virginia

Type Environment: Residential community, no major traffic,

GPS Coordinates (NAD 83): 38 55 39.2 N
77 19 09.5 W

Date/Time of Measurement: October 10, 2000/ 11:15 AM to 11:30 PM

Figure 3.5-1 Measurement Site Date Sheet



119 feet SE of intersection of Hunter Station and Hunters Place in Reston, Virginia

Figure 3.5-2 Test Measurement Site Photographs

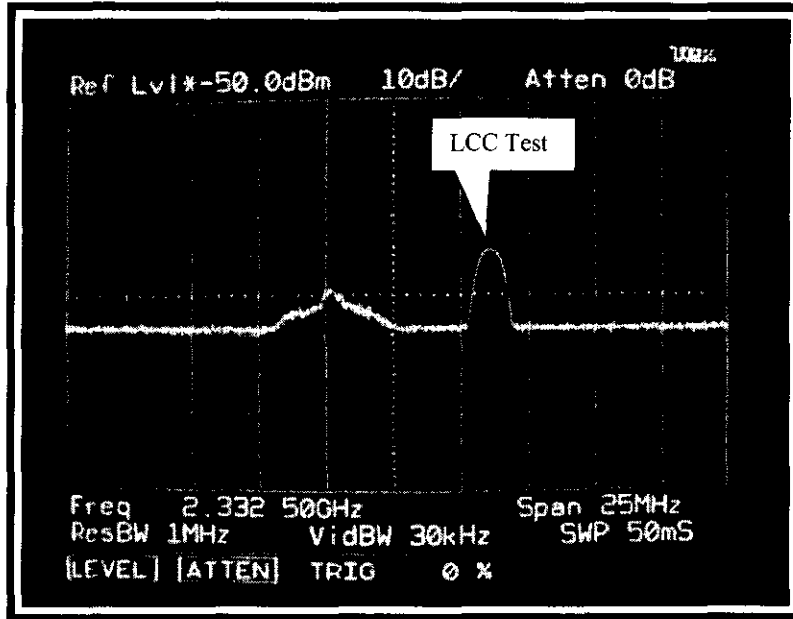
Hunters Place - Reston, Virginia

Reference
Level
dBm_i

XM Satellite Radio

Azimuth 0-360°

-70



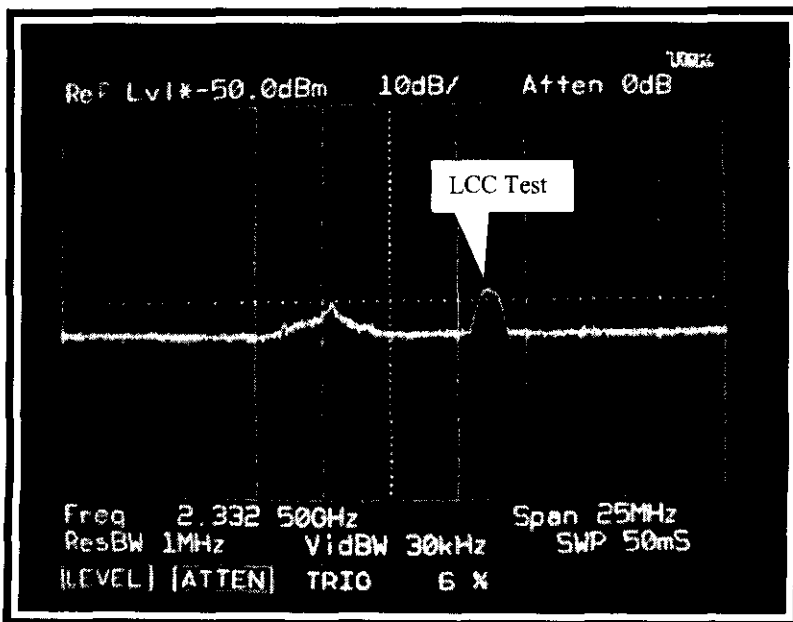
Date: October 10, 2000
Time of Day: 11:28
Ant. Polarization: V
Ant. Centerline: 5 Ft.

Full Antenna Sweep

(A)

Reference
Level
dBm_i

-70



Date: October 10, 2000
Time of Day: 11:30
Ant. Polarization: H
Ant. Centerline: 5 Ft.

Full Antenna Sweep

(B)

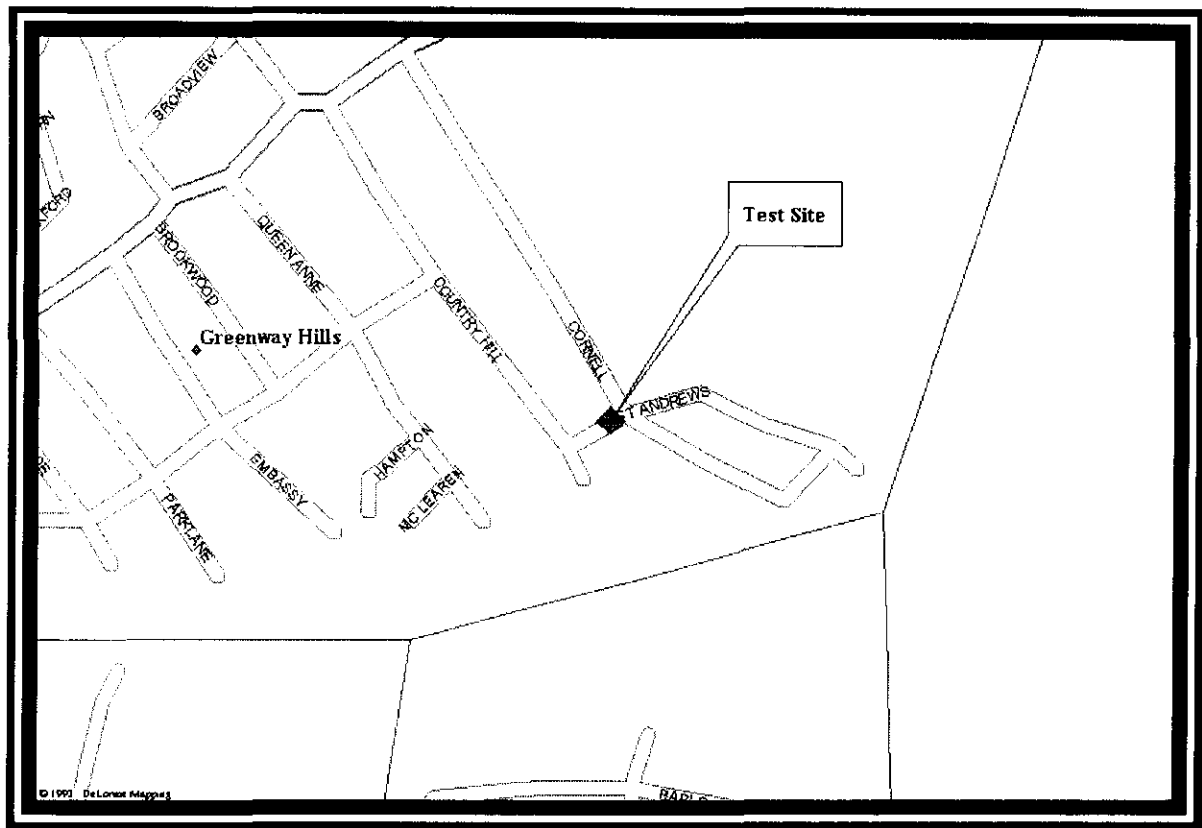
Figure 3.5-3 RF Spectrum Analysis

SECTION 3.6

Fairfax, VA

3.6 Fairfax, Virginia – Intersection of St. Andrews and Connell Road

- o Figure 3.6-1 presents a site data sheet including all pertinent site information and a site map.
- o Figure 3.6-2 is the photograph depicting the test site.
- o Figures 3.6-3 through 3.6-4 are the RF spectrum photographs depicting the interference environment at the test site.



Site Location: Intersection of St. Andrews and Connell Road Fairfax, Virginia

Type Environment: Residential

GPS Coordinates (NAD 83): 38 51 15.0 N
77 16 59.5 W

Date/Time of Measurement: October 10, 2000/ 5:15 PM to 5:40 PM

Figure 3.6-1 Measurement Site Date Sheet



Intersection of St. Andrews and Connell Road Fairfax, Virginia

Figure 3.6-2 Test Measurement Site Photographs

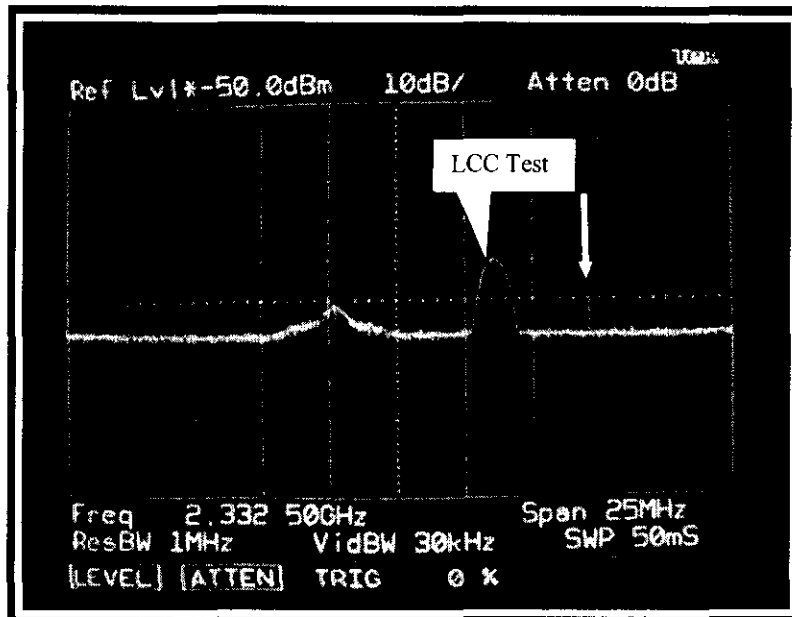
St. Andrews and Connell - Fairfax, Virginia

Azimuth 0-360°

Reference
Level
dBm_i

XM Satellite Radio

-70



Date: October 10, 2000

Time of Day: 17:26

Ant. Polarization: V

Ant. Centerline: 5 Ft.

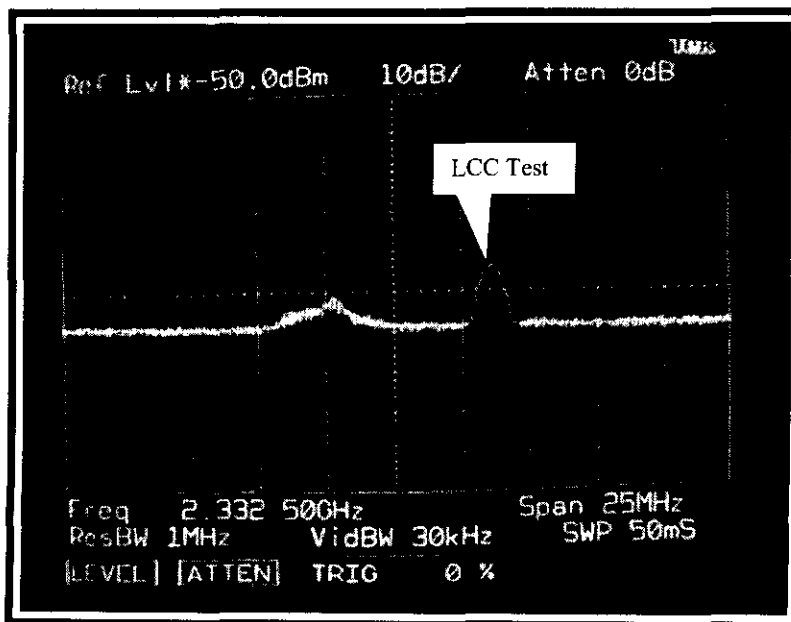
Full Antenna Sweep

Maximum ignition noise
interference signal measured
was -120 dBm at 2339.5 MHz
as indicated by arrow.

(A)

Reference
Level
dBm_i

-70



Date: October 10, 2000

Time of Day: 17:27

Ant. Polarization: H

Ant. Centerline: 5 Ft.

Full Antenna Sweep

(B)

Figure 3.6-3 RF Spectrum Analysis

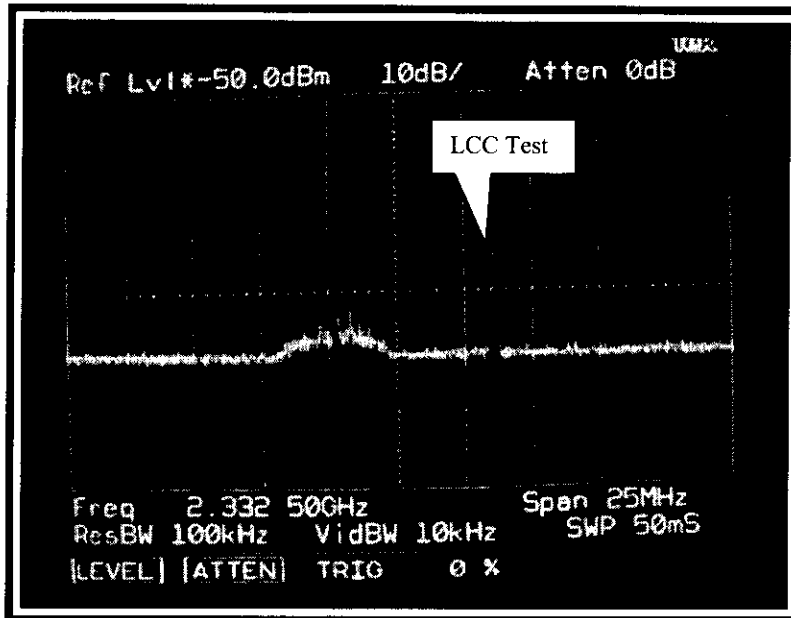
St. Andrews and Connell - Fairfax, Virginia

Reference
Level
dBm_I

XM Satellite Radio

Azimuth 0-360°

-70



Date: October 10, 2000

Time of Day: 17:31

Ant. Polarization: V

Ant. Centerline: 5 Ft.

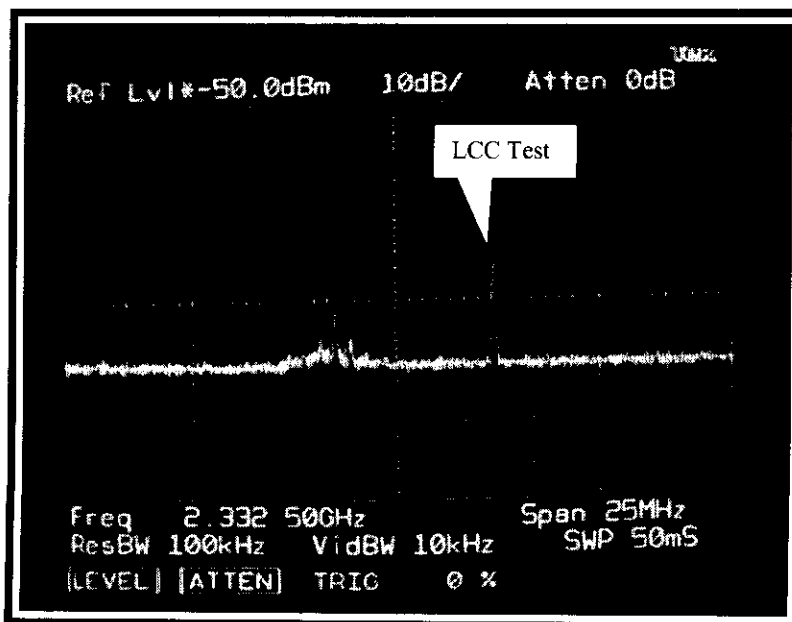
Full Antenna Sweep

100 kHz Resolution Bandwidth

(A)

Reference
Level
dBm_I

-70



Date: October 10, 2000

Time of Day: 17:29

Ant. Polarization: H

Ant. Centerline: 5 Ft.

Full Antenna Sweep

100 kHz Resolution Bandwidth

(B)

Figure 3.6-4 RF Spectrum Analysis